

Serial No.: 09/890,127

REMARKS

Claims 1, 7, 9 and 11-13, as amended, remain herein.

Applicants respectfully request the Examiner to provide an initialed copy of PTO Form 1449 indicating receipt and consideration of references accompanying an Information Disclosure Statement filed October 9, 2001. Also, a second Information Disclosure Statement was filed on March 12, 2003.

Applicants also respectfully request the Examiner to provide a copy of PTO Form 892 showing all references cited in the February 28, 2003 Office Action.

Claims 2-6, 8 and 10 have been cancelled without prejudice or disclaimer. Claim 1 has been amended to include the limitations of claims 3 and 6, and to correspond to Figs. 3-5. See specification, page 16, lines 16-22 and page 17, lines 12-20. Claim 7 has been amended to include the limitations of claims 3 and 6, and to correspond to Figs. 7-10. See specification, page 11, lines 18-19, and page 19, lines 18-21.

Claims 11 and 12, each depending from claim 7, and claim 13, depending from claim 11, have been added. See

Serial No.: 09/890,127

specification, page 22, lines 15-16, and page 19, line 14 to page 22, line 8, and Figs. 7-10.

1. Claims 1 and 2 were rejected under 35 U.S.C. §102(b) over Dever et al. U.S. Patent 5,204,578. Claim 2 has been cancelled, thereby mooting its rejection.

The presently claimed lamp device comprises a discharge lamp comprising an arc tube having a first sealed portion extending therefrom, a reflector, a transparent member covering an open end of the reflector and accommodating the discharge lamp in a space between the transparent member and the reflector, and a heat releasing device.

The heat releasing device comprises (1) a heat absorbing part wrapped around substantially the entire length of a sealed portion that extends from the arc tube, and (2) a plate-like heat channeling part for channeling heat from the heat absorbing part to a space external to the reflector, the heat channeling part passing through the reflector and communicating with an area outside the reflector, wherein a surface of the channeling part is perpendicular to the transparent member. This

Serial No.: 09/890,127

arrangement is nowhere disclosed or suggested in the cited reference.

As shown in applicants' Fig. 3, the presently claimed discharge lamp device comprises heat releasing device 41 composed of heat absorbing part 41a, which is wrapped around sealed portion 23 and heat channeling part 41b, which passes through the reflector and communicates with an area outside the reflector.

Dever '578, Figs. 3 and 4, shows U-shaped heat sink member 64 having a portion attached to the outer surface of bulbous central cavity 80, which corresponds to applicants' arc tube 22, and a portion attached to bracket 116. Arc tube 22 has first and second sealed portions 76 and 78 extending from central cavity 80. U-shaped heat sink member 64 is not attached to either of extended sealed portions 76 and 78, and also does not penetrate reflector 92 to an area external to reflector 92.

Thus, Dever's heat sink member 64 does not comprise (1) a heat absorbing part wrapped around substantially the entire length of a sealed portion that extends from the arc tube, and (2) a plate-like heat channeling part for channeling heat from

Serial No.: 09/890,127

the heat absorbing part to an exterior of the reflector, the heat channeling part passing through the reflector and communicating with an area outside the reflector.

The specification, page 18, lines 6-17, describes the importance of the location of the presently claimed heat releasing device, wherein heat channeling part 41b is attached directly to the sealed portion 23 (corresponding to neck portions 76 and 78 of Dever '578), which contains the weld portion of a wiring material that is vulnerable to heat. Moreover, heat channeling part 41b conducts heat to an area external to reflector 11.

For the foregoing reasons, Dever '578 fails to disclose all elements of applicants' claimed invention, and therefore is not a proper basis for rejection under §102. And, there is no disclosure or teaching in Dever '578 that would have suggested the desirability of modifying any portions thereof effectively to anticipate or suggest applicants' presently claimed invention. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

Serial No.: 09/890,127

2. Claims 1 and 6-9 were rejected under 35 U.S.C. §102(b) over Ooyama U.S. Patent 5,957,570. Claims 6 and 8 are cancelled, thereby mooting their rejection.

The presently claimed lamp device comprises a discharge lamp including a heat releasing device comprising (1) a heat absorbing part wrapped around substantially the entire length of a sealed portion that extends from the arc tube, and (2) a plate-like heat channeling part for channeling heat from the heat absorbing part to a space external to the reflector, the heat channeling part passing through the reflector and communicating with an area outside the reflector.

Ooyama '570, Fig. 1, shows a reflector discharge lamp comprising aperture 31 in a front cover 30 (corresponding to the transparent member of the presently claimed invention), and sealed portion 11 of discharge lamp 10, that projects through aperture 31. But, Ooyama '570 does not disclose or suggest a heat absorbing part wrapped around substantially the entire length of either sealed portion extending from bulbous portion 10 of the lamp. Instead, for cooling, Ooyama '570 discloses an end of sealed portion 11 projecting through aperture 31 of front

Serial No.: 09/890,127

cover 30 so that the sealed portion is brought into contact with air outside the lamp and thereby cooled.

Thus, while Ooyama '570 discloses a heat channeling part passing through the reflector and communicating with an area outside the reflector, Ooyama '570 does not disclose (1) a heat absorbing part wrapped around substantially the entire length of a sealed portion that extends from the arc tube, and (2) a plate-like heat channeling part for channeling heat from the heat absorbing part to a space external to the reflector, the heat channeling part passing through the reflector and communicating with an area outside the reflector.

For the foregoing reasons, Ooyama '570 fails to disclose all elements of applicants' claimed invention, and therefore is not a proper basis for rejection under §102. And, there is no disclosure or teaching in Ooyama '570 that would have suggested the desirability of modifying any portions thereof effectively to anticipate or suggest applicants' presently claimed invention. Claims 6-9, which depend from claim 1, are allowable for the same reasons as claim 1. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

Serial No.: 09/890,127

3. Claim 10 was rejected under 35 U.S.C. §102(b) over Ichiro JP 11-317196. Claim 10 has been cancelled, thereby mooting the rejection.

4. Claims 3-5 were rejected under 35 U.S.C. §103(a) over Dever '578 and Ichiro JP '196. Claims 3-5 have been cancelled, thereby mooting their rejection.

All claims 1, 7, 9 and 11-13 are now proper in form and patentably distinguished over all grounds of rejection cited in the Office Action. Accordingly, allowance of all claims 1, 7, 9 and 11-13 is respectfully requested.

Serial No.: 09/890,127

Should the Examiner deem that any further action by the applicants would be desirable to place this application in even better condition for issue, the Examiner is requested to telephone applicants' undersigned representatives.

Respectfully submitted,

PARKHURST & WENDEL, L.L.P.

May 27, 2003

Date

Roger W. Parkhurst

Roger W. Parkhurst
Registration No. 25,177
Robert N. Wieland

Robert N. Wieland
Registration No. 40,225

RWP:RNW/mhs/ch

Attorney Docket No.: OGOH:086

PARKHURST & WENDEL, L.L.P.
1421 Prince Street, Suite 210
Alexandria, Virginia 22314-2805
Telephone: (703) 739-0220